Chia-Yu Tseng

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Education

National Yang Ming Chiao Tung University   Hsinchu, Taiwan
B.S. in Computer Science | GPA: 4.3 /4.3 (Major), 4.27 /4.3 (overall)   ***Jul. 2021 - Present***
Relevant Courses: DS and OOP, Introduction to Algorithm, Competitive programming, Introduction to Computer Network, Introduction to Database Systems, Introduction to Artificial Intelligence, Introduction to Formal Language.

Experience

Advantech   Python, Fastapi, MongoDB, GraphQL, Docker, Grafana, JavaScript, LangChain, Langflow
Research & Development Intern at DataAI   *Jun. 2023 - Present*
- Retrieved and processed sensor data from the database, including data cleaning and statistical analysis. Developed APIs to serve as Grafana data sources.
- Designed and implemented Grafana panels to visualize the topological structure of the factory and machine system.
- Spearheaded the design and implementation of the Langflow application, creating custom component nodes for enhanced functionality.

2022, 2023 Meichu Hackathon   Vue.js, React.js, TailwindCSS, MongoDB, AWS, Django
Minister of the Development Department   *Mar. 2022 - Oct. 2023*
- Led a team of 6 members in discussions with companies on the competition topic.
- Developed a LineBot for competition-related communication, designed and implemented the signup website, and managed the ten-year server. Additionally, conducted code reviews for team members.

Vision and Learning Lab   Python, Pytorch, Transformer, Facial Landmark Detection
Research Assistant   *June. 2023 - Present*
- Received guidance from Prof. Yen-Yu Lin for a research project focused on facial landmark detection.

Projects

Meichu Hackathon ten year server (Vue.js, Tailwind CSS, Express.js, MongoDB, Postman, AWS)   (Website, github)
Platform for documenting Meichu Hackathon and showcasing participants' projects.   *Sep. 2022*
- Implemented the backend using Express.js as the framework, MongoDB as the database, and deployed the service on AWS. Utilized Postman for comprehensive APIs.
- Achieved Responsive Web Design (RWD) with Vue.js and Tailwind CSS for an optimized and user-friendly interface.

Nasa Hackathon Ocean guarden-frOG (vue.js, TailwindCss, Three.js)   (website, github)
A platform-based RPG game emphasizing the significance of the ocean.   *Aug. 2023*
- Utilized three.js and Vue.js to develop an interactive Earth allowing users to toggle and zoom in/out.
- Clearly presented ocean data, enabling users to select both the desired time and location.

Human post estimator (python, pytorch, opencv)   (github)
An AI program designed to assess and determine whether your current posture is correct or not.   *May. 2023*
- Constructed a model using MovNet in conjunction with CNN, DNN, and MLP to form a multi-classifier.
- Mapped the journey from an input picture to human pose points, thereby evaluating the correctness of the posture.

Awards

- **Silver medal |** silver medal of 2023 NASA Hackathon at Taichung Region
- **Bronze medal |** Bronze medal of The 2023 ICPC Asia Taoyuan Regional Programming Contest, Fourty-fifth place out of 100 teams.
- **Silver medal |** Sensing AIOT System Application Idea Competition
- **Academic Achievement Awards(Top 5%) |** Fall 2021 (GPA 4.24), Spring 2022 (GPA 4.25), Fall 2022 (GPA 4.27), Spring 2023 (GPA 4.3)
- **Foundation Academic course Awards(Top 5%) |** Linear Algebra, Discrete Mathematics, Data Structure And Object Oriented Programming.

Extracurricular Activities

NYCU Computer Science Student Association
Co-leader of Information Group   *Jul. 2023 - Present*
- Led 3 members to maintain the service provided by the student association, including past exam system, introduction of CS department for high school and several web services.

NYCU Google Developer Student Clubs
Co-leader of Technical Team   *Sep. 2023 - Present*
- Led 8 members to learn the fundamentals of computer vision and its applications.
- Collaborated with team members to develop and complete a cutting-edge computer vision project.